

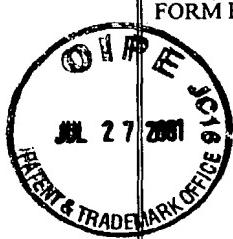


SHEET 1 OF 1

FORM PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION		DOCKET NUMBER NPW 301F	APPLICATION NUMBER 09/839,997			
		APPLICANTS DAVID J. EDLUND and WILLIAM A. PLEDGER				
		FILING DATE April 20, 2001	GROUP ART UNIT 1764			
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
<i>AE</i>	6,183,543	2/6/2001	Buxbaum	—	—	
<i>↓</i>	6,168,650	1/2/2001	Buxbaum	—	—	
<i>AC</i>	5,931,987	8/3/1999	Buxbaum	—	—	
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES      NO
OTHER DOCUMENTS						
EXAMINER <i>M. Alexandra Eline</i>		DATE CONSIDERED <i>1/30/04</i>				

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TC 1700





FORM PTO-1449

INFORMATION DISCLOSURE  
CITATION IN AN APPLICATION

DOCKET NUMBER

NPW 301F

APPLICATION NUMBER

09/839,997

## APPLICANTS

DAVID J. EDLUND and WILLIAM A. PLEDGER

## FILING DATE

April 20, 2001

## GROUP ART UNIT

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
AC	1,306,221	6/10/1919	Ellis			
	1,782,824	11/25/1930	Hechenbleikner			
	1,848,466	3/8/1932	Edmonds			
	2,132,151	10/4/1938	Fenske et al.			
	2,450,804	10/5/1948	Loy			RECEIVED
	2,609,059	9/2/1952	Benedict			DEC 06 2001
	2,824,620	2/25/1958	De Rosset			
	3,094,391	6/18/1963	Mader			
	3,144,312	8/11/1964	Mertens			
	3,208,198	9/28/1965	Rubin			
↓	3,336,730	8/22/1967	McBride et al.			
AC	3,338,681	8/29/1967	Kordesch			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES	NO
AC	JP 45-14404	5/1970	Japan				X
↓	JP 45-2642	9/1970	Japan				X
AC	JP 1-145302	6/1989	Japan				X

## OTHER DOCUMENTS

_____	_____	English abstract of Japanese Patent No. 432150, 1992.
_____	_____	English abstract of Japanese Patent No. 513230, 1993.

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DATE CONSIDERED

1/30/04



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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
AC	3,350,176	10/31/1967	Green et al.	—	—	
	3,368,329	2/13/1968	Eguchi et al.	—	—	
	3,450,500	6/17/1969	Setzer et al.	—	—	
	3,469,944	9/30/1969	Bocard et al.	—	—	
	3,520,803	7/21/1970	Iaconelli	RECEIVED		
	3,524,819	8/18/1970	Guerrieri	DEC 06 2001		
	3,564,819	2/23/1971	Neulander et al.	—	—	
	3,589,171	6/29/1971	Haley	TC 1700		
	3,665,680	5/30/1972	Heuser	—	—	
	3,713,270	1/30/1973	Farr et al.	—	—	
↓	3,761,382	9/25/1973	Hammond et al.	—	—	
AC	3,782,904	1/1/1974	Fletcher	—	—	

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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES	NO
AC	JP 1-145303	6/1989	Japan	—	—	X	
AC	EP 0434562 A1	6/26/1991	EPO	—	—	X	
XZ	JP 4-163860	6/1992	Japan	—	—	X	

## OTHER DOCUMENTS

	English abstract of Japanese Patent No. 514790, 1993.	
EXAMINER	M. Alexandra Elve	DATE CONSIDERED 1/30/04

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
AC	3,787,038	1/22/1974	Tesner et al.			
	3,791,106	2/12/1974	Haley			
	3,849,076	11/19/1974	Gryaznov et al.			
	3,881,891	5/6/1975	Goltsov et al.			
	3,881,897	5/6/1975	Faure et al.			RECEIVED DEC 06 2001
	3,920,416	11/18/1975	Houseman			
	3,955,941	5/11/1976	Houseman et al.			TC 1700
	3,972,695	8/3/1976	Buckley et al.			
	3,980,452	9/14/1976	Krumm et al.			
	3,982,910	9/28/1976	Houseman et al.			
V	4,003,343	1/18/1977	Lee			
AC	4,003,725	1/18/1977	Bunn, Jr. et al.			

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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES	NO
	JP 6-134244	5/1994	Japan				X
	WO 97/25649	7/1997	WIPO			X	

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	English abstract of Japanese Patent No. 604070, 1994.
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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
AC	4,056,373	11/1/1977	Rubin			
	4,098,959	7/4/1978	Fanciullo			
	4,098,960	7/4/1978	Gagnon			
	4,127,393	11/28/1978	Timmings et al.			
	4,132,668	1/2/1979	Gryaznov et al.			
	4,197,152	4/8/1980	Palty et al.			
	4,238,403	12/9/1980	Pinto			
	4,254,086	3/3/1981	Sanders			
	4,302,177	11/24/1981	Fankhanel et al.			
	4,315,893	2/16/1982	McCallister			
↓	4,329,157	5/11/1982	Dobo et al.			
AC	4,349,613	9/14/1982	Winsel			

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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES	NO
	WO 97/43796	11/1/1997	WIPO				X
	WO 99/30806	6/1999	WIPO			X	
	WO 99/65097	12/1999	WIPO			X	

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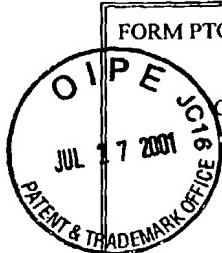
	English abstract of Japanese Patent No. 634540.
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FORM PTO-1449

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
AE	4,381,641	5/3/1983	Madgavkar et al.	—	—	
	4,387,434	6/7/1983	Moncrief, Jr. et al.	—	—	
	4,400,182	8/23/1983	Davies et al.	—	—	
	4,417,905	11/29/1983	Banks et al.	—	—	
	4,430,304	2/7/1984	Spurrier et al.	—	—	
	4,444,158	4/24/1984	Yoon	—	—	
	4,468,235	8/28/1984	Hill	—	—	DEC 06 2001
	4,472,176	9/18/1984	Rubin	—	—	TC 1700
	4,473,622	9/25/1984	Chludzinski et al.	—	—	
	4,504,447	3/12/1985	Spurrier et al.	—	—	
AE	4,533,607	8/6/1985	Sederquist	—	—	
AE	4,553,981	11/19/1985	Fuderer	—	—	

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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES	NO
AE	WO 00/04600	1/2000	WIPO	—	—		X
AE	EP 1065741 A2	1/3/2001	EPO	—	—	X	

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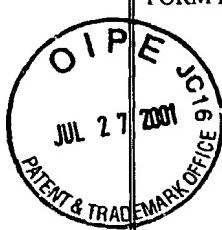
—	—	English abstract of Japanese Patent No. 710910, 1995.
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M. Alexandra Elve

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
AC	4,567,857	2/4/1986	Houseman et al.			
	4,589,891	5/20/1986	Iniotakis et al.			
	4,642,273	2/10/1987	Sasaki			
	4,644,751	2/24/1987	Hsu			
	4,650,814	3/17/1987	Keller			
	4,654,063	3/31/1987	Auvil et al.			
	4,657,828	4/14/1987	Tajima			
	4,659,634	4/21/1987	Struthers			
	4,670,359	6/2/1987	Beshty et al.			
	4,684,581	8/4/1987	Struthers			
AC	4,699,637	10/13/1987	Iniotakis et al.			
AC	4,713,234	12/15/1987	Weirich et al.			

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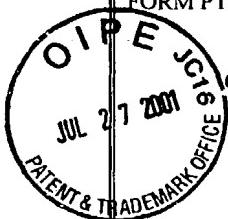
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## OTHER DOCUMENTS

—	—	English abstract of Japanese Patent No. 828793, 1996.
—	—	English abstract of Japanese Patent No. 6176779, 1994.

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M. Alexandra Elke	1/30/04



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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
AE	4,751,151	6/14/1988	Healy et al.			
	4,781,241	11/1/1988	Misage et al.			
	4,788,004	11/29/1988	Pinto et al.			
	4,810,485	3/7/1989	Marianowski et al.			
	4,838,897	6/13/1989	Amano et al.			
	4,849,187	7/18/1989	Uozu et al.			
	4,865,624	9/12/1989	Okada			
	4,880,040	11/14/1989	Pierson et al.			
	4,904,455	2/27/1990	Karafian et al.			
	4,904,548	2/27/1990	Tajima			
↓	4,946,667	8/7/1990	Beshty			
AE	4,981,676	1/1/1991	Minet et al.			

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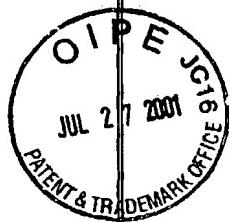
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO

## OTHER DOCUMENTS

	English abstract of Japanese Patent No. 7057758, 1995.
	English abstract of Japanese Patent No. 11-16202, 1999.

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M. Alexandra Elve	1/30/04

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
AE	5,030,661	7/9/1991	Lywood			
	5,032,365	7/16/1991	Aono et al.			
	5,139,541	8/18/1992	Edlund			
	5,158,581	10/27/1992	Coplan			
	5,205,841	4/27/1993	Vaiman			DEC 06 2001
	5,215,729	6/1/1993	Buxbaum			
	5,225,080	7/6/1993	Karbachsch et al.			TG 1700
	5,226,928	7/13/1993	Makabe et al.			
	5,229,102	7/20/1993	Minet et al.			
	5,326,550	7/5/1994	Adris et al.			
✓	5,335,628	8/9/1994	Dunbar			
AE	5,344,721	9/6/1994	Sonai et al.			

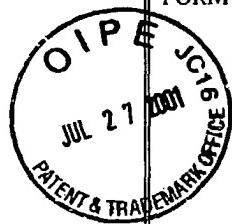
## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES	NO

## OTHER DOCUMENTS

—	English abstract of Japanese Patent No. 57-145276.
—	English abstract of Japanese Patent No. 1-145302.

EXAMINER	DATE CONSIDERED
M. Alexandra Elve	1/30/04



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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
AE	5,354,547	10/11/1994	Rao et al.			
	5,376,167	12/27/1994	Broutin et al.			
	5,382,271	1/17/1995	Ng et al.			
	5,393,325	2/28/1995	Edlund			
	5,395,425	3/7/1995	Brown			
	5,401,589	3/28/1995	Palmer et al.			
	5,417,051	5/23/1995	Ankersmit et al.			
	5,432,710	7/11/1995	Ishimaru et al.			
	Re. 35,002	7/25/1995	Matsubara et al.			
	5,449,848	9/12/1995	Itoh			
✓	5,458,857	10/17/1995	Collins et al.			
AE	5,498,278	3/12/1996	Edlund			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES	NO

## OTHER DOCUMENTS

		English abstract of Japanese Patent No. 1-145303.
		English abstract of Great Britain Patent No. 2,305,186.
		English abstract of German language PCT Patent Application Serial No. WO 00/04600, 2000.

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M. Alexandra Elve	1/30/04



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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
AE	5,500,122	3/19/1996	Schwartz			
	5,509,942	4/23/1996	Dodge			
	5,516,344	5/14/1996	Corrigan			
	5,518,530	5/21/1996	Sakai et al.			
	5,520,807	5/28/1996	Myrna et al.			DEC 06 2001
	5,525,322	6/11/1996	Willms			
	5,527,632	6/18/1996	Gardner			TC 1700
	5,536,405	7/16/1996	Myrna et al.			
	5,580,523	12/3/1996	Bard			
	5,589,599	12/31/1996	McMullen et al.			
AE	5,612,012	3/18/1997	Soma et al.			
AE	5,616,430	4/1/1997	Aoyama			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES	NO

## OTHER DOCUMENTS

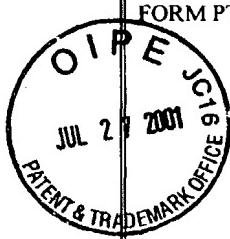
	Adris, A. M., et al., "A Fluidized Bed Membrane Reactor for the Steam Reforming of Methane," The Canadian Journal of Chemical Engineering, Vol. 69, pp. 1061-70 (October, 1991).
	Amphlett, J. C., et al., "On Board Hydrogen Purification for Steam Reformer/PEM Fuel Cell Vehicle Power Plants," Energy Progress X, Proceedings of the 10 <sup>th</sup> World Hydrogen Energy Conference, Cocoa Beach, Florida, U.S.A., Vol. 3, pp. 1681-90 (June, 1994).

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FORM PTO-1449

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
AC	5,637,259	6/10/1997	Galuszka et al.	—	—	
	5,639,431	6/17/1997	Shirasaki et al.	—	—	
	5,645,626	7/8/1997	Edlund et al.	—	—	
	5,658,681	8/19/1997	Sato et al.	—	—	
	5,677,073	10/14/1997	Kawatsu	—	—	RECEIVED
	5,679,249	10/21/1997	Fendya et al.	—	—	DEC 06 2001
	5,705,916	1/6/1998	Rudbeck et al.	—	—	
	5,712,052	1/27/1998	Kawatsu	—	—	TC 1700
	5,714,276	2/3/1998	Okamoto	—	—	
	5,734,092	3/31/1998	Wang et al.	—	—	
↓	5,738,708	4/14/1998	Peachey et al.	—	—	
AE	5,741,474	4/21/1998	Isomura et al.	—	—	

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—	—	—	—	—	—	—	—

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—	Amphlett, J. C., et al., "Simulation of a 250 kW Diesel Fuel Processor/PEM Fuel Cell System," Fifth Grove Fuel Cell Symposium, Commonwealth Institute, London, U.K., p. 8 (September 22-25, 1997).
—	Chai, M., et al., "Promotion of Methane Steam Reforming Using Ruthenium-Dispersed-Microporous-Alumina-Membrane Reactor," Chemistry Letters, The Chemical Society of Japan, pp. 41-44 (1993).

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		APPLICANTS DAVID J. EDLUND and WILLIAM A. PLEDGER	
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	5,780,179	7/14/1998	Okamoto			
	5,782,960	7/21/1998	Ogawa et al.			
	5,795,666	8/18/1998	Johnssen			RECEIVED
	5,811,065	9/22/1998	Sterenberg			DEC 06 2001
	5,814,112	9/29/1998	Elliot et al.			
	5,821,185	10/13/1998	White et al.			TC 1700
	5,833,723	11/10/1998	Kuwabara et al.			
	5,858,314	1/12/1999	Hsu et al.			
	5,861,137	1/19/1999	Edlund			
AE	5,874,051	2/23/1999	Heil et al.			
AE	5,888,273	3/30/1999	Buxbaum			

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	"Compact, Lightweight Fuel Reformer for Fuel Cells," Argonne National Laboratory/U.S. Department of Energy (July, 1996).
	Edlund, Dr. David and William Pledger, "Development of a Compact and Economical Steam Reformer for Fuel Cell Systems," Fifth Grove Fuel Cell Symposium, Commonwealth Institute, London, U.K., p. 6 (September 22-23, 1997).

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
AC	5,897,766	4/27/1999	Kawatsu	—	—	
I	5,897,970	4/27/1999	Isomura et al.	—	—	
	5,904,754	5/18/1999	Juda et al.	—	—	
	5,932,181	8/3/1999	Kim et al.	—	—	
	5,938,800	8/17/1999	Verrill et al.	RECEIVED		
	5,985,474	11/16/1999	Chen et al.	DEC 06 2001		
	5,997,594	12/7/1999	Edlund et al.			
	6,007,931	12/28/1999	Fuller et al.	TC 1700		
	6,042,956	3/28/2000	Lenel			
	6,045,772	4/4/2000	Szydłowski et al.			
✓	6,045,933	4/4/2000	Okamoto			
AC	6,054,229	4/25/2000	Hsu et al.			

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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES	NO

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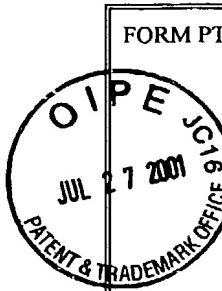
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EXAMINER

M. Alexandra Fine

DATE CONSIDERED

1/30/04



FORM PTO-1449

INFORMATION DISCLOSURE  
CITATION IN AN APPLICATION

DOCKET NUMBER

NPW 301F

APPLICATION NUMBER

09/839,997

## APPLICANTS

DAVID J. EDLUND and WILLIAM A. PLEDGER

## FILING DATE

April 20, 2001

## GROUP ART UNIT

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.
XE	6,077,620	6/20/2000	Pettit			
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## OTHER DOCUMENTS

		Emonts, B., et al., "Compact Methanol Reformer Test for Fuel-Cell Powered Light-Duty-Vehicles," Fifth Grove Fuel-Cell Symposium, Commonwealth Institute, London, U.K., (no page no.), (September 22-25, 1997).
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EXAMINER

M. Alexandra Elve

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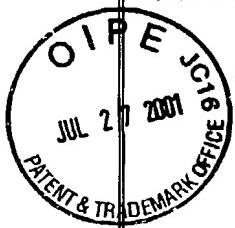
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